

Claim 47, Line 2, before "C<sub>60</sub>", add ~~---~~extracted--;

Claim 47, Line 2, delete ~~recovered~~;

Claim 48, Line 2, before "C<sub>60</sub>", add ~~---~~extracted--;

Claim 48, Line 2, delete ~~recovered~~;

Claim 50, Line 9, delete ~~recovering~~ and insert  
therefor --extracted--;

Claim 51, Line 2, before "C<sub>60</sub>", add ~~---~~extracted--;

Claim 51, Line 2, delete ~~recovered~~;

Claim 52, Line 2, before "C<sub>60</sub>", add ~~---~~extracted--;

Claim 52, Line 2, delete ~~recovered~~;

Claim 53, Line 2, before "C<sub>60</sub>", add ~~---~~extracted--;

Claim 53, Line 2, delete ~~recovered~~;

Claim 58, Line 3, delete ~~recovered~~ and insert  
therefor --extracted--;

Claim 62, Line 2, delete "the recovering" and insert  
therefor --extracting--;

Claim 63, Lines 1-2, delete ~~the recovering~~ and  
insert therefor --extracting--;

Claim 64, Lines 1-2, delete ~~the recovering step~~ and  
insert therefor --extracting--;

Claim 65, Line 1, before "depositing", delete ~~the~~;

Claim 160, Line 11, delete ~~recovering~~ and insert  
therefor --extracting--;

Claim 163, Line 2, before "carbon", add ~~---~~extracted--;

Claim 163, Line 2, delete ~~recovered~~ and insert  
therefor --extracted--;

Claim 165, Line 2, delete ~~recovered~~ and insert  
therefor --extracted--;

Claim 169, Line 2, delete ~~recovering~~ and insert  
therefor --extracting--;

Claim 170, Line 1, delete ~~"recovering"~~ and insert  
therefor --extracting--;

Claim 181, Line 6, delete ~~"and recovering~~  
predominantly";

Claim 181, Line 8, delete ~~"recovering"~~ and insert  
therefor --extracting in solid form--;

Claim 182, Line 6, delete ~~"recovering"~~ and insert  
therefor --extracting--;

Claim 183, Line 2, before "fullerene", add  
--extracted--;

Claim 183, Line 2, delete ~~"recovered"~~;

Claim 184, Line 2, before "fullerene", add  
--extracted--; delete ~~"recovered"~~;

Claim 185, Line 2, before "fullerene", add  
--extracted--; delete ~~"recovered"~~;

Claim 186, Line 2, before "fullerene", add  
--extracted--; delete ~~"recovered"~~;

Claim 187, Line 10, delete ~~"recovering"~~ and insert  
therefor --extracted--;

Claim 188, Line 2, before "fullerene", add  
--extracted--; delete ~~"recovered"~~;

Claim 189, Line 2, before "fullerene", add  
--extracted--; delete ~~"recovered"~~;

Claim 190, Line 2, before ~~"fullerene"~~, add  
--extracted--; delete ~~"recovered"~~;

Claim 192, Line 2, delete ~~"recovering"~~, and insert  
therefor --extracting--;

Claim 193, Line 2, delete ~~"recovering"~~, and insert  
therefor --extracting--; and

Claim 203, Line 2, delete "recovering" and insert therefor --extracting--.

Please amend Claims 50, 83, 84 and 171 as follows:

50. (Amended) A process for preparing C<sub>60</sub> comprising

(a) vaporizing <sup>elemental</sup> carbon source in the presence of an inert quenching gas under conditions effective to provide a sooty carbon product comprising C<sub>60</sub> molecules;

(b) depositing the sooty carbon product on a collecting surface remote from said situs of vaporization;

(c) removing the sooty carbon product from the collecting surface; and

(d) separating a product comprising C<sub>60</sub> in macroscopic amounts [which is predominantly C<sub>60</sub>] from said sooty carbon product.

83. (Amended) A process for preparing C<sub>60</sub> comprising

(a) vaporizing <sup>elemental carbon</sup> carbon source in the presence of an inert quenching gas under conditions effective to form a sooty carbon product comprising C<sub>60</sub> molecules, said C<sub>60</sub> molecules being present in said sooty carbon product in amounts sufficient to be capable of providing a visibly colored solution when extracted with sufficient amounts of benzene and

(b) extracting [recovering] C<sub>60</sub> from said sooty carbon product in amounts sufficient to provide a visibly colored solution when extracted with benzene in amounts sufficient to dissolve the C<sub>60</sub> present in said sooty carbon product.

84. (Amended) A process for preparing C<sub>60</sub> comprising

(a) vaporizing <sup>elemental</sup> carbon source in the presence of an inert quenching gas under conditions effective to provide a sooty carbon product comprising C<sub>60</sub> molecules, said C<sub>60</sub>

molecules being present in said sooty carbon product in amounts sufficient to be capable of providing a visibly colored solution when extracted with benzene;

(b) depositing the sooty carbon product on a collecting surface;

(c) removing the sooty carbon product from the collecting surface; and

D2  
(d) [recovering] extracting a product which is predominantly C<sub>60</sub> from said sooty carbon product, said C<sub>60</sub> being present in sufficient quantities to provide a visibly colored solution when extracted with benzene present in amounts sufficient to dissolve the C<sub>60</sub> present in said sooty carbon product.

D3  
171. (Amended) The process of Claim 160 wherein the carbon source is placed into an unevacuated reactor which is then evacuated prior to the vaporization thereof [vaporized in an evacuated reactor].

Please add Claims 204-231 as follows:

-204. A process for preparing C<sub>60</sub> comprising

F  
D4  
(a) vaporizing <sup>elemental carbon</sup> ~~a carbon source~~ in the presence of an inert quenching gas at a pressure sufficient to generate a sooty carbon product comprising C<sub>60</sub>, said C<sub>60</sub> being present in said sooty carbon product in sufficient amounts to produce and collect therefrom crystalline C<sub>60</sub>;

(b) separating said C<sub>60</sub> from said sooty carbon product under conditions effective to recover crystalline C<sub>60</sub>.

205. The process according to Claim 204 wherein the pressure is less than 1 atmosphere.

206. The process according to Claim 205 wherein the pressure is at least about 50 torr.

207. The process according to Claim 206 wherein the pressure ranges from about 50 to about 400 torr.

208. The process according to Claim 204 wherein  $C_{70}$  is additionally present in the sooty carbon product.

209. The process of Claim 204 wherein  $C_{70}$  is additionally present in the sooty carbon product and is separated from the sooty carbon product and is additionally present in the crystalline  $C_{60}$ .

210. The process according to Claim 209 wherein said  $C_{70}$  is separated from the crystalline  $C_{60}$ .

211. The process according to Claim 204 wherein said crystalline  $C_{60}$  is substantially pure crystalline  $C_{60}$ .

e D4  
212. The process according to Claim 204 wherein the <sup>elemental</sup> carbon ~~source~~ is graphite, amorphous carbon or glassy carbon.

213. A process for preparing  $C_{60}$  comprising:

e F  
(a) vaporizing <sup>elemental</sup> ~~carbon source~~ to form carbon vapor in an atmosphere of an inert gas;

(b) quenching said carbon vapor in said inert gas under conditions sufficient to effectively condense and nucleate said vapor to form a sooty carbon product comprising  $C_{60}$  molecules in sufficient quantities to extract therefrom an amount sufficient to collect said  $C_{60}$  as a crystalline product;

(c) collecting said sooty carbon product;

(d) separating said  $C_{60}$  from said sooty carbon product and recovering therefrom said  $C_{60}$  in crystalline form.

214. The process according to Claim 213 wherein the inert gas is helium or argon.

215. The process according to Claim 213 wherein the carbon vapor is quenched for a sufficient distance from the situs of vaporization to form said sooty carbon product.

216. The process according to Claim 215 wherein said distance is about 5 to 10 cm from the situs of vaporization.

217. The process according to Claim 213 wherein the C<sub>60</sub> recovered therefrom is substantially pure crystalline C<sub>60</sub>.

218. The process according to Claim 213 wherein C<sub>70</sub> is additionally present in the sooty carbon product and is additionally present in the carbon product and is additionally present in the crystalline product.

219. The process according to Claim 213 wherein the C<sub>60</sub> is separated from C<sub>70</sub>.

220. The process according to Claims 213 wherein the quenching gas is at a pressure less than 1 atmosphere.

221. The process according to claim 220 wherein the pressure ranges from about 50 torr to about 400 torr.

222. A process for producing C<sub>60</sub> comprising:

(a) vaporizing <sup>elemental</sup> ~~a carbon source~~ in an atmosphere of an inert gas at a pressure sufficient to generate a sooty carbon product comprising C<sub>60</sub>; said C<sub>60</sub> being present in sufficient quantities to recover therefrom C<sub>60</sub> in amounts to be discernible as a colored solid;

(b) separating said C<sub>60</sub> from said sooty carbon product under conditions effective to recover therefrom a colored crystalline C<sub>60</sub>.

223. The process according to Claim 222 wherein the pressure is less than 1 atmosphere pressure.

224. The process according to Claim 223 wherein the pressure is greater than about 50 torr.

225. The process according to Claim 224 wherein the pressure ranges from about 50 torr to about 400 torr.